

# RP230 Series

## High Performance Dual Stage Power Line Filters



### 3.5 A to 40 A Chassis Mount Filter

#### Specifications

Operating Frequency	50/60 Hz
Usable Frequency	DC -400 Hz
Max. Operating Voltage*	250 V +10%
Ambient Temperature	-25 to 40°C
Climatic Category	25/100/21
Hipot Rating (L-G)	2700 VDC
Terminals (-T)	QD: 0.25 Tabs S: 30/40 A (M4)
Safety Approvals	CSA, UR, EN60939

\*Available up to 300 VAC. Please contact us to verify specifications.



#### Electrical Schematic



#### Part Number/Ordering

RP230	-X (Amps)	-Y (Ycap, nF)	-T	Typ. Weight, lbs (kg)
	3.5	0	QD	0.7 (0.3)
	6.5	0.47	QD	0.7 (0.3)
	20	1	QD	0.7 (0.3)
	30	2.2	S	2.6 (1.2)
	40	4.7	S	3.1 (1.4)
		10		

**Note:** Use any combination of -Y with any -X (Amps) rating e.g. RP230-40-4.7-S (40 Amps with 4.7 nF Ycap)

#### Leakage Current

Y-cap, nF	mA, 120 V/60 Hz	mA, 250 V/60 Hz
0	0.0	0.0
0.47	0.04	0.08
1	0.09	0.18
2.2	0.2	0.4
4.7	0.4	0.8
10	0.9	1.8

Specifications are subject to change. Consult factory to verify specifications.

For more information on our filter products call us at: (800) 527-4362 or (714) 289-0055  
LCR, Radius Power, and Filter Concepts are now part of Astrodyne TDI

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#### Typical Insertion Loss, dB (50/50 Ohm)

Freq (MHz)	0.15	0.5	1.0	10	30
<b>3.5 Amp</b>					
CM(dB)	60	62	62	52	45
DM(dB)	40	60	68	60	60
<b>6.5 Amp</b>					
CM(dB)	60	62	62	50	40
DM(dB)	40	60	68	60	60
<b>20 Amp</b>					
CM(dB)	24	46	50	60	60
DM(dB)	25	40	60	65	65
<b>30 Amp</b>					
CM(dB)	42	50	55	65	60
DM(dB)	60	60	65	65	65
<b>40 Amp</b>					
CM(dB)	28	44	55	60	60
DM(dB)	50	52	65	65	65

#### Mechanical Dimensions

TYPICAL TOLERANCE: +/-0.02" (0.50 mm)

##### 3.5/6.5/20 Amp



##### 30/40 Amp



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